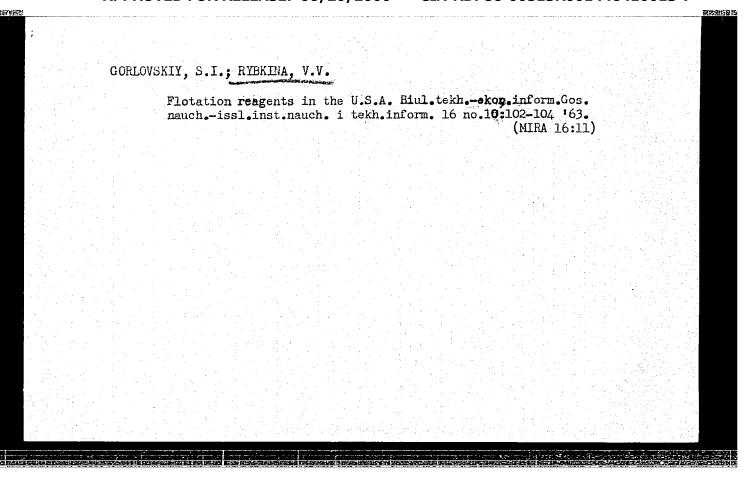
of aluminosilicate catalysts. Trudy LTI no.51:76-82 '59. (MIRA 13:8) (Benzene)	DOBR YAN	SKIY, A.F. RYBKINA, V.V. Conversions of some disubstituted alkylbenzenes in the presence	
(Benzene)		of aluminosilicate catalysts. Trudy LTI no.51:76-82 '59.	
		(Benzene)	



(Benzene) (Catalysts)	Compar cataly	ing the effect st on halogen	ts of aluminum ated benzenes.	chlori de a Trudy LTI	and an no.51: (MIRA	aluminosilicate :83-85 59.	
		(Benzene)	(Catalysts)				

Ore flotati	on with use of	higher xanthates. Ob	peg. rud 7 no.3:5-12 '62.
		(Flotation)	(MIRA 16:4)
			임계하는 사람들이 되지 않았다.
			G : : : 하네는 트는 그는 시험 함께 :
			하는데, 아이들의 그리리 사랑 홍호
			한 교통 맛을 가는 가는 것이 가게 되는 것은 것이다.

YBKINA

137-1957-12-23030

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 23 (USSR)

AUTHOR:

Rybkina, V. V.

2.17、 其世人爲此了治。15.5 起中国和名名等以此识析的理解,是用实现能够是解决的自然实现。由5.6 由于元之(2.6 ph. 2.5 ab 2.5 ab 2.5 ab 2.5 ab 2.5 ab 2.5 ab 2

TITLE:

On the Collecting Action of Mercaptobenzothiazole (O sobiratel'nom

deystvii merkaptobenzotiazola)

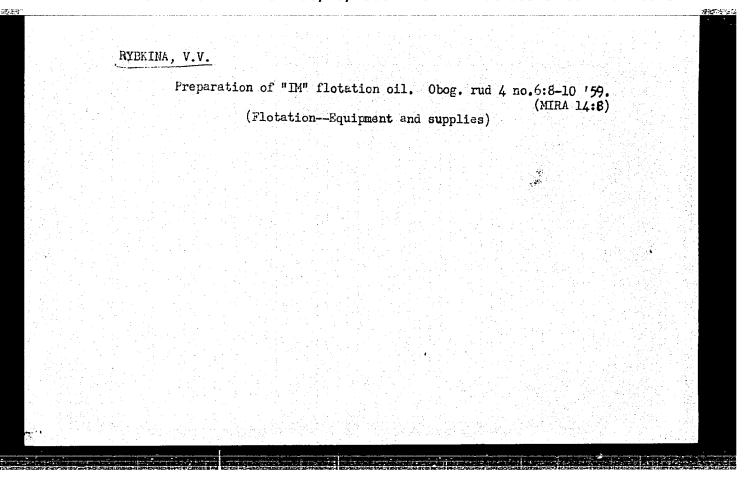
PERIODICAL: Obogashcheniye rud, 1957, Nr 1, pp 44-46

ABSTRACT:

A presentation of the results of flotation experiments in the study of one of the water-soluble derivatives of the mercaptobenzothiazolsoda Captax (SC), prepared from mercaptobenzothiazole and caustic soda. Experiments were performed on smithsonite and on cerussite from the deposits of Yuzhnaya Darbaza. The flotation of cerussite by SC (consumption 0.03g/1) without preliminary sulfidization is almost as effective as the flotation of cerussite by xanthogenate with preliminary sulfidization. However, SC is more sensitive to increases in the pH of the pulp than the xanthogenate. In the flotation of smithsonite and malachite the SC is inferior to xanthogenate. Among the investigated sulfide minerals, galanite is readily susceptible to flotation by SC, whereas sphalerite is less effectively floated. Chalcopyrite is virtually unsuitable for flotation. It is recommended that the testing of mercaptobenzothiazole be performed on ores containing oxidized and sulfide minerals of Pb.

Card 1/1

1. Metallurgy-USSR 2. Minerals-Flotation 3. Mercaplobenzothiszole-Applications



S/081/60/000/015/010/014 A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 15, p. 199, # 61367

AUTHORS: Dobryanskiy, A.F., Rybkina, V.V.

The Transformations of Some Bisubstituted Alkylbenzenes in the

TITLE: The Transformations of Johns Presence of Alumosilicate Catalysts

PERIODICAL: Tr. Leningr. tekhnol. in-ta im. Lensoveta, 1959, No. 51, pp. 76-82

TEXT: In the presence of alumosilicate catalysts and at temperatures of 250°C, dialkyl aromatic hydrocarbons with one phenyl ring are capable of transformations during an extended period. This transformation consists in the transfer of alkyl with the formation of a trisubstituted from a bisubstituted transfer of alkyl with the transformation, monosubstituted benzenes are liberated. One. As a result of the transformation, monosubstituted benzenes are liberated. The rate of the radical transfer depends on its magnitude. Isomerization of substitutes into meta-position takes place simultaneously with the reaction of radical disproportionation during the thermocatalytic transformations of bi-

Card 1/2

S/081/60/000/015/010/014 A006/A001

The Transformations of Some Bisubstituted Alkylbenzenes in the Presence of Alumosilicate Catalysts

substitute alkylbenzenes. The amount of transformed initial substances increases with a longer time and higher temperature of the experiments.

From the authors' summary

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

		Collecting ef	fect of captax. Ob	og. rud 2 no.1	: 44-46	157.	11:9)
			(Benzothiazole)	(Flotation)	• [•] [(ALIA)	1-1-17/
J.							
	Salaria (Sec.)	and the second of the second o					

RYBKINA. V.V.:

RYHKINA, V.V.: "Thermocatalytic transformation of arylalkyl hydrocarbons on an aluminum silicate catalyst". Leningrad, 1955. Min Higher Education USSR. Leningrad Order of Labor Red Banner Technological Inst. imeni Leningrad Soviet. (Dissertations for the Degree of Candidate of Chemical Sciences)

50: Knizhnava letovis' No 44, 29 October 1955. Moscow.

New type of disproportionation. Zhur. ob. khim. 30 no.1 D 60. (M	2:4109-4110 IRA 13:12)
l. Institut eksperimental noy i klinicheskoy onkologii meditsinskikh nauk SSSR.	Akademii
(Disproportionation)	회의 발생되다 그리는 그 그릇
이 사람이 아이들이 아이들의 중요한 것 같은 함께 하셨다는 때문에 하기다	역시 이번 강극에 되고 있다.
그 그리다 그러 그 어떤 다른 바람들을 그리고 있는데 그런 작은데	가는 아내가 되어 하시다면?
그리는 이번 그리고 하는 이 교육이다. 생활들은 이번 중에는 일본을 제시합니다.	원조를 하면 모든 작가의 이번 경험
그리고 하는 어느 하는 사람들이 보고 목록을 돌아온다. 그는 이 성급은 여숙하다	집에도 그렇게 다른 그리는 그렇다
그 그 그는 어제에 나를 만든 계속 가를 생물을 가는 물을 가는 것을 만하다.	
그 사이는 가 먹는 사이를 받는 것 같아. 하는 일상 말을 시간을 모았다.	교회에는 관계를 하다하고 있습니?
그는 이번에 있는 그 그 생각이 그 나는 그는 중 하는 일은 살아갔다.	하늘은 사람들이 얼굴하게 하고
그들이 그는 이 사는 그 나는 가면 하는 회육 가장 사람이 이 기뻐하고 있다.	
8 : 1	
그는 하실 수 있는 이 사람들이 하나는 생물을 사용하다 사물을 모았다.	일일에 되었다고 말을 하는 이 이 명
그 그 그는 그에게 들어가는 그는 밤 가는 살이 없는데 그렇게 되었다.	당실 환수 가 발표 나는 보다 수 있다.
	제작 그리다 그 그 생각이 모든 그 것 같다.
그는 사이트 이 사람들은 사람들은 그래요한 때 그림으로 이름을 받았다.	원 경기를 받는다면 하는 그 그릇
된 그 저는 이번 시민들은 집에 살았다고 있는데 첫번째 나가 말을 잃었다.	장, 여행 경기를 받아 되어 그리 생물
성진 현실 이 교육 사는 명을 통하면 보겠다면 보겠다면 모양하면 모양 방문에 불편하는데	항송 발표를 보고 있는 것 같아요?
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일시 등이 이번 기가 가장됐다. 사고를 받는데 되었다.	되기를 되게 밝다고 하는 그는 이번 뒤다.
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CHERNOVA, N.G.; RYBKINA, Ye.I.: BERLIN, A. Ya.

Aryl- β -amino acids. Part No.4: V.M. Rodionov reaction with some aryl aliphatic aldehydes. Synthesis of δ -[p-di(2-chloroethyl) aminophenyl]- β -aminovaleric, acid. Zhur. ob. khim. 34 no.7: 2129-2133 Jl '64 (MIRA 17:8)

1. Institut eksperimental noy i klinicheskoy onkologii AMN

CIA-RDP86-00513R001446410013-7 "APPROVED FOR RELEASE: 06/20/2000

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77411

SOV/79-30-1-72/78

AUTHORS:

Uretskaya, G. Ya., Rybkina, Ye. I., Men'shikov, G. P.

TITLE:

Synthesis of 6-Amino-7-Methylpurine Derivatives as

Possible Antimetabolites

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 327-

332 (USSR)

ABSTRACT:

Several derivatives of 7-methylpurine were synthesized for future study of their antimetabolic action. The following compounds were synthesized and described: 2,6-dichloro-7-methylpurine (I), 7-methyladenine (II), 2-chloro-6-ethyleneimino-7-methylpurine (IV), 2-chloro-6-monoethanolamino-7-methylpurine (IV), 2-chloro-6-diethanolamino-7-methylpurine (V), 6-diethylamino-7-methylpurine (V), 6-diethylamino-7-methylpurine (VI) methylpurine (VI), 6-monoethanolamino-7-methylpurine (VII), ethyl ester of N-(2-chloro-7-methylpurine-6-gly-cine (VIII), ethyl ester of N-(2-chloro-7-methylpurine-6-gly-cine (VIII), ethyl ester of N-(2-chloro-7-methylpurine-6-gly-cine (VIII)). 6)-dl- Q -alanine (IX), and ethyl ester of N-(7-methyl-purine-6)-glycine (X). Compound I was prepared by the modified method of J. Davell for preparation of

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Synthesis of 6-Amino-7-Methylpurine Derivatives as Possible Antimetabolites

77411 SOV/79-30-1-72/78

trichloropurine (J. Am. Chem. Soc., 73, 2937 (1951)): freshly distilled phosphoryl chloride was boiled with theobromine and dimethylaniline; the residue left after distillation of POCl₃ was neutralized with Na₂CO₃ and the precipitate washed with 2% KOH and recrystallized from water (yield 25%; mp 197.5-196°). Compound III was made by letting the mixture of ethyleneimine, 2,6-dichloro-7-methylpurine, and 1% NaOH stand for 18-20 hr at room temperature. 2-Chloro-6-aminosubstituted 7-methylpurines (compounds IV, V, VIII, and IX; see Table A) were synthesized by boiling the alcohol solution of compound I with the corresponding amine. The 6-aminosubstituted 7-methylpurines (compounds II, VI, and X) were obtained by the modified method of E. Fischer (Ber., 30, 2400 (1897); ibid, 31, 104 (1898)), i.e., by boiling 2-chloro-6-aminosubstituted 7-methylpurine with HI (d 1.50) and red phosphorus. Melting points of the products were: 7-methyladenine (II), 345-346°; 6-diethylamino-7-methylpurine hydrochloride (VI), 200.5-201.5°; hydrochloride of ethyl N-(7-

Card 2/4

Synthesis of 6-Amino-7-Methylpurine Deriva- 77411 tives as Possible Antimetabolites SOV/79-

77411 SOV/79-30-1-72/78

Table A. 2-Chloro-6-aminosubstituted 7-methylpurines.

N=C-R CIC C-N CH N-C-N CH

	EMPIRICAL	MELTING POINT	SOLVENT FOR RECRYSTAL- LIZATION	(%)	F	OUND (%)	CAL	CULATE	0(%)
K	FORMULA				C :	11	CI	C	н	С1
NICH,CH,OH), HNCH,CH2CHOC,H5 HNCH—COOC,H5	$\begin{array}{c} C_{10} \Pi_{14} O_{2} N_{5} C I \\ C_{8} H_{10} O N_{5} C I \\ C_{10} H_{12} O_{2} N_{5} C I \\ C_{11} H_{14} O_{2} N_{5} C I \end{array}$	175° 216—217 210 7 0 —71	Alcohol Alcohol Woter Woter	56 75.5 56.5	44.33 42.43 44.25	5.32 4.40 4.42	13.04 15.95 13.01 12.61 12.77	44.19 42.17 44.53	5.20 4.45 4.48	13.06 15.65 13.14 12.50
CH ₃	C ₁₁ H ₁₆ O ₃ N ₅ Cl				43.45 43.74	5.45 5.37		43.78	5.40	

Card 3/4

Synthesis of 6-Amino-7-Methylpurine Derivatives as Possible Antimetabolites

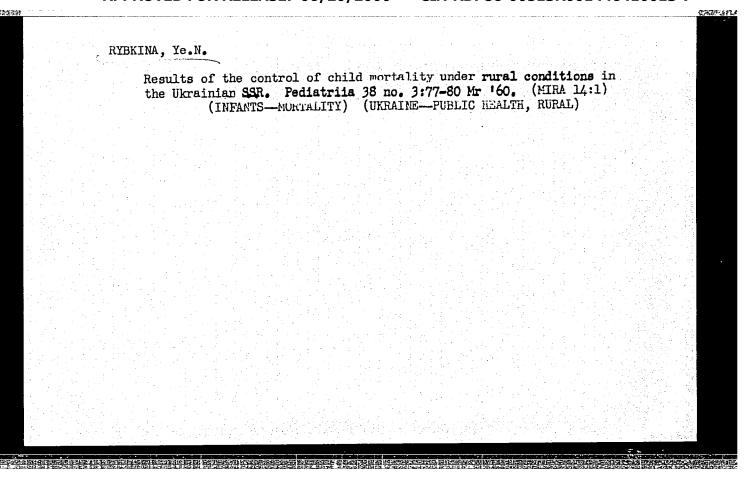
77411 SOV/79-30-1-72/78

methylpurine-6)-glycinate (X), 217-218° (decomp.). The latter compound was also obtained (very small amount) by reacting 6-chlore-7-methylpurine with ethyl glycinate. Compound VII was prepared by reacting ethylene oxide with a solution of 7-methyladenine in 25% acetic acid. Biological action of compounds III, V, VII, II, VI, and X was studied in the laboratory of experimental chemotherapy. Results of these tests will be published separately. There is 1 table; and 5 references, 2 German, 3 U.S. The U.S. references are: J. Davell, J. Am. Chem. Soc., 73, 2937 (1951); R. Adams, F. Whitmore, J. Am. Chem. Soc., 67, 127 (1945); R. Prasad, R. Robins, J. Am. Chem. Soc., 79, 6401 (1947).

SUBMITTED:

December 17, 1958

Card 4/4



RYBKINA. Yekaterina Nikolayevna [Rybkina, K.M.]; REVUTSKAYA, Z.G. [Rovuts'ka, Z.H.], otv.red.; STAROSTERKO, T.M., red.

[How to bring up a healthy child] IAk vykhovaty zdorovu dytymu. Kyiv, 1960. 33 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrains'koi RSR. Ser.5, no.10)

(MIRA 14:1)

(CHILDREN--CARE AND HYGIENE)

AKKERMAN, F.M., inzh.; PYATETSKIY, G.Yu., inzh.; RYEKO, B.P., inzh.

Standardization of current conducting binding posts of explosionproof electrical equipment. Elektrotekhnika 35 no.2:16-17 F '64.e

(MIRA 17:3)

EYERO, Ye.M.; SEREYVEROVA, O.K.

Cleaning compounds of alkylaryl sulfonate-type from liquid turnifins of the fraction of 180 to 325 of Polina cil. Poki.

EFF 5 no. 1/2:82-87 163.

MIFA 12:61

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RYBKULOVA, N.M.; GELLER, B.E.; PAKSHVER, A.B.

Investigation of the darkening mechanism and methods of bleaching spinning solutions and nitron fibres. Izv.vys.ucheb.zav.; khim. i khim.tekh. 1 no.5:107-113 '58. (MIRA 12:2)

1. Vsesoyuznyy zaochnyy institut tekstil'noy i legkoy promyshlennost i Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Nitron)

(Acrylonitrile)

5(1, 3) CV/153-58-5-18/28

AUTHORS: Rybkulova, N. M., Geller, B. E., Pakshver, A. B.

TITLE: Investigation of the Mechanism of Darkening and of the De-

coloring Methods of Spinning Solutions and of the "Nitron" Fiber (Issledovaniye mekhanizma potemneniya i metodov

obestsvechivaniya pryadil'nykh rastvorov i volokna "nitron")

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya

tekhnologiya, 1958, Nr 5, pp 107-113 (USSR)

ABSTRACT: Synthetic chemical fibers should have a uniform color. In the production of polyacrylonitrile fibers, especially of the

"Nitron" fiber 15-16% spinning solutions of polyacrylonitrile (PAN) in dimethyl formamide (DMF) can have colors from light yellow to dark brown. This is caused by the stability of the polymer, the quality of the solvent and other factors. The color of the fiber depends on that of the spinning solution. The problem of producing white fibers has been many times discussed in publications (Refs 1-10). The present paper serves

the purpose of explaining the causes of the phenomena of colors

of concentrated solutions of PAN in DMF, as well as in the Card 1/3 ready fiber. Furthermore production methods of white fibers

SOV/153-59-5-18/26

Investigation of the Mechanism of Darkening and of the Decoloring Methods of Spinning Solutions and of the "Nitron" Fiber

were to be devised. PAN, PAN solutions in DMF, films and fibers were investigated. Tables 1 and 2 as well as figures 1-4 give the results obtained. Since spinning solutions as well as freshly formed fibers become yellow or dark on a longer heating to 100° it must be assumed that DMF is saponified in an aqueous medium. Colored amidine compounds are formed by the interaction of the separated dimethyl amine and ammonia with the polymer (CN-groups). This assumption was proved by 3 facts experimentally checked (Figs 3, 4). The causes are admixtures in DMF, as there are H-COOH, NH3 and (CH3) NH. The substances of basic character present in the spinning solution lead to a darkening, those of acid character brighten the solution. Acids forming compounds with ammonia and amines and which are capable of entering reactions with -CN-groups are an exception. A scheme of the mechanism of this reaction was suggested. Production methods of the white polyacrylonitrile fibers was devised. The authors recommend usage of a) a pure solvent, as well as substances that bind dimethyl amine and ammonia to a non volatile solid compound, and which are incapable of reacting with the

Card 2/3

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001446410013-7"

SOV/153-58-5-18/28 Investigation of the Mechanism of Darkening and of the Dacoloring Methods of Spinning Solutions and of the "Nitron" Fiber

> -CN-groups of the polymer. They are H2SO4, SO2, H2C2O4 and others. b) To carry out an acid treatment of the ready fiber with weak acid solutions, and c) to bleach the ready fiber with acid solutions of sodium chlorite. There are 4 figures, 2 tables, and 15 references, 11 of which

are Soviet.

ASSOCIATION:

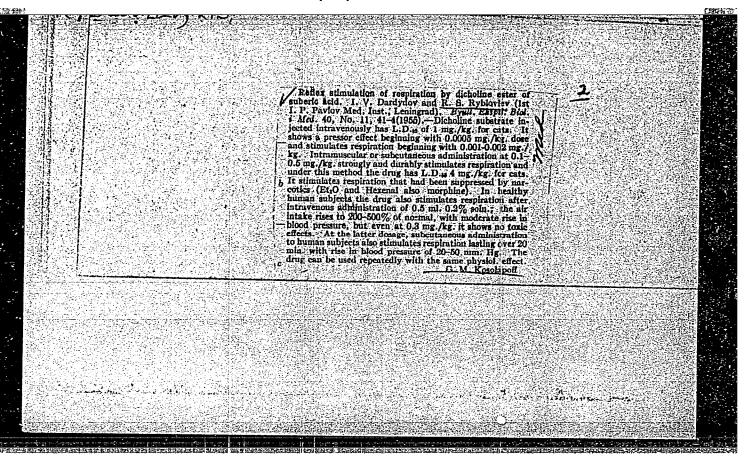
Vsesoyuznyy zaochnyy institut tekstil'noy i legkoy promyshlennosti i vsesoyuznyy nauchno-issledovatel'skiy institut iskuss:vennogo volokna (All-Union Correspondence Institute for Textile and Light Industry, and All-Union Scientific Research Institute for Synthetic Fibers)

SUBMITTED:

January 11, 1958

Card 3/3

l. Rukovoditel' sektsii prepodaveteley politicheskikh distsiplin pri Kiyevskom metodicheskom kabinete. (Kiev-Communist education)	 Rukovoditel' sektsii prepodaveteley politicheskikh distsiplin pri Kiyevskom metodicheskom kabinete. 	Study of the materials of the Twentieth Congress of the Communist Party of the Soviet Union. Proftekh. obr. 14 no.4:24-26 Ap '57.	
(Kiev—Communiat education)	(Kiev-Communist education)	1. Rukovoditel' sektsii prepodaveteley politicheskikh distsiplin pri Kiyevskom metodicheskom kabinete.	
		(KievCommunist education)	
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RYBNICEK, Bohumil Centralized collection of payments in practice. Cs spoje 10 no.2:8-9 Ap '65.

1. South Moravia Regional Adminstration of Telecommunication, Brno.

RYBLICEK, K.

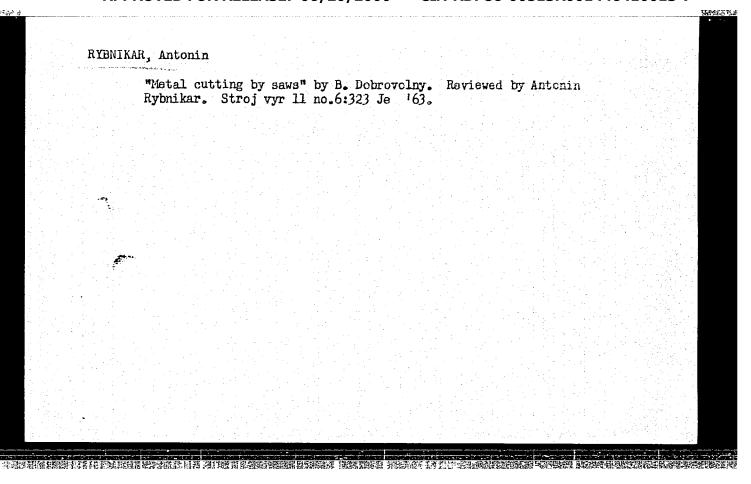
"A few remarks on the utilization of the peat bog near Velke Darko."

P. 260. (Ministerstvo kultury. Statni pece o ochranu prirody -- Praha, Czechoslovka.) Vol. 12, no. 9, Dec. 1957.

SO: Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 5, May 1958

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Saw disks with SK carbide tips for woodworking and machining of new plastics. Stroj vyr 11 no. 12: 619 '63.		RYB	NTKAF	2 . A	ntonii	1										+ 1, +			
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RYBNIKAR, FRANTISEK

CZECHOSLOVAKIA / Physics of High Molecular Substances.

D-9

: Ref Zhur - Fizika, No 4, 1957, No 9120

Author

: Rybnikář, František

Title

: Viscosimetry of Poly-amides.

Orig Pub : Chem. listy, 1955, 49, No 10, 1442 - 1447

Abstract

: Description of a method of fractionating poly-amides, dissolved in a benzol-creosol mixture, by precipitating with benzine. Various specim ents of fractionated and non-fractionated poly-amides were used to check the suitability of the Huggins equation (Huggins, M.L., Industrial Engineering Chemistry, 1943, 35, 980) and to determine the constant k = 0.335 for tri-cresol at 30° all the way to η = 10. For the characteristic of individual fractions of polyamides, the author proposes the use of only the characte-10.670

Card

: 1/2

CZECHOSLOVAKIA / Physics of High Molecular Substances.

D-9

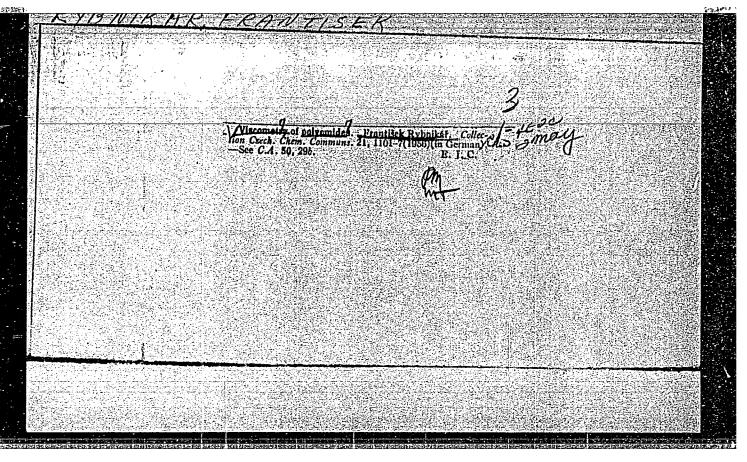
Abs Jour : Ref Zhur - Fizika, No 4, 1957, No 9120

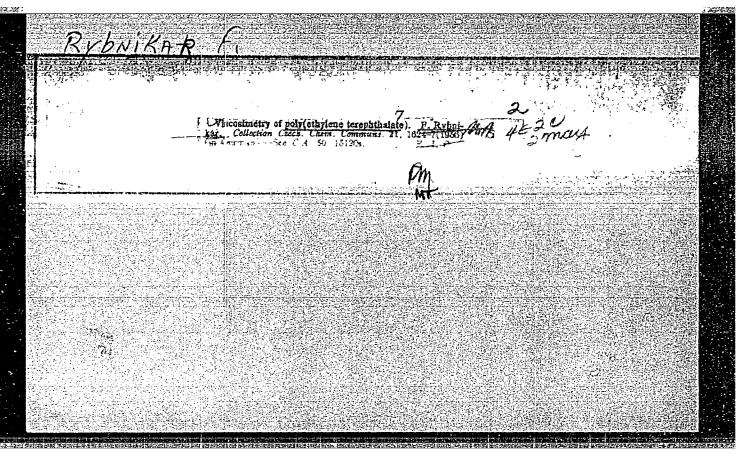
Abstract

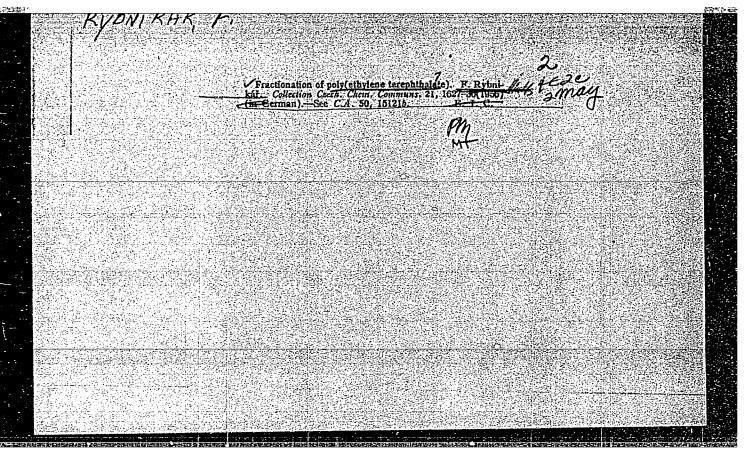
: instead of the previously employed degree of polymerization. The degree of polymerization is only a particular characteristic of the viscosity and varies with the equation used for its determination, all the way to seceral

tens of percent.

Card : 2/2







"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410013-7

RYBNIKHK, F

CZECHOSLOVAKIA / Physics of High Molecular Substances.

D-9

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, No 9106

Author

Title

: Objective Method for Determining the Melting Point and the : Rybnikař, F.

Softening Region of High Molecular Substances.

Orig Pub

: Chem. listy, 1956, 50, No 1, 145 - 146

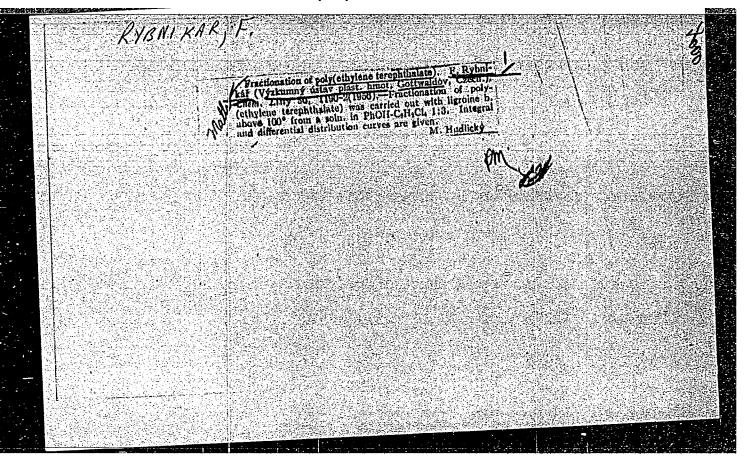
Abstract

: A blunt needle, connected with an indicator (pointer micrometer) bears against the surface of the investigated substance, placed in a heated test tube. Upon softening or melting of the substance, the needle starts to move downward under the influence of its own weight and of the indicator spring. The motion of the needle is measured by the indi-

cator.

Card

: 1/1



RYBRIKAR, F. ; ZAJICEK, C.

Laboratory preparation of high molecular weight poly-6-caprolactam.

P. 619. (CHEMICKY PRUMYSL) (Praha, Czechoslavakia) Vol. 7, no. 11, Nov. 1957

SO: Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 5, May 1958

RYBNIKAR, F.

"Objective determination of the melting and softening points in substances with a high molecular weight. In Russian."

p. 309 (COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS. SEORNIK CHECKHOSLOVATSKIKH KHMICHESKIKH RABOT. -- Praha, Czechoslovaka.)
Vol. 22, No. 1, Feb. 1957

SO: Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 5, May 1958

Chemicke Listy	. Praha, Czecho	slovakia. Vol. 49,	no. 10, Oct 1955		
Monthly list o	f East European	Accessions (EEAI)	. LC. Vol. 8. No.	6. Jun 59. Und	clas

RYBNIKAR F.

CZECHOSLOVAKIA

RYBNIKAR, F.

Research Institute of India Rubber and Synthetics Technology (Porschungsinstitut für Kautschuk- und Kunststofftechnologie), Gottwaldov

Prague, Collection of Czechoslovak Chemical Communications, No 12, 1963, pp 3226-3237

"Recrystallization of Isotactic Polypropylene."

"治狱"号:

1. Forschungsinstitut fur Kautschuk- und Kunststofftechnologie, Gottwaldov.	Course of the liquefaction of polychlorotrifluoroethylenes. Coll Cz Chem 27 no.12:2864-2871 D '62.
	1. Forschungsinstitut fur Kautschuk- und Kunststofftechnologie, Gottwaldov.
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l. Forschungsinstitut für Kautshhuk- and Kundtäfftechnologie, Gottwaldov.	
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L 19152-63 EWP(j)/EFF(c)/BDS AFFTC/ASD Pc-4/Pr-4 RM/WW/MAY ACCESSION NR: AP3002592 - G/0004/63/010/006/0324/0330

AUTHOR: Rybnikar, F., Mozisek, M., Jelinek, O.

TITLE: Effects of radiation on the structure and properties of isotactic polypropylene

SOURCE: Plaste und Kautschuk, v. 10, no. 6, 324-330

TOPIC TAGS: isotactic polypropylene, radiation effect, plastics crystallinity, polypropylene structure, polypropylene property polymer

ABSTRACT: Isotactic polypropylene was irradiated in vacuo and in air, at a temperature of 20° + 5° C, with gamma rays emanating from a Co-60 source at a dosage intensity of 14 rad/sec. The absorbed dose was measured with a Fe(II) sulfate dosimeter. The irradiated samples were heat-treated at 90° C for 48 hr. and examined by X-ray spectrography (Cuk-alpha), for melting point, solubility and swelling in xylene, density, mechanical properties, spherolite growth rate, and isothermal crystallization. Irradiation in air caused an oxidative decomposition, characterized principally by a decrease in cross-linking yield, resulting in a significant deterioration in mechanical properties. Irradiation

Card 1/62/

L 19152-63

ACCESSION NR: AP3002592

in vacuo, at a dose below 3 x 107 rad, caused a splitting of the macromolecules to split off. At higher doses, progressive increase in cross-linking of the macromolecules and the formation of an insoluble component became evident. The melting point decreased after irradiation in vacuo; crystallization rate first decreased and, at doses over 1.2 x 10′ rad, increased. The increase was attributed to an increase in the number of preferred crystallization nuclei, the rate of spherolite growth was not affected by irradiation. Crystallization isotherms are shown in Figure 1 of Enclosure 1; relations between crystallization and radiation dose are shown in Figure 2 of Enclosure 2; some significant physical constants are shown in Table 1, Enclosure 3. This paper was translated by J. Techel, Radebeul. Orig. art. has: 13 diagrams and 4 tables.

ASSOCIATION: Research Institute for Rubber and Plastics Technology, Gottwaldow, Czechoslovakia

SUBMITTED: 080ct62

DATE ACQ: 16Jul63

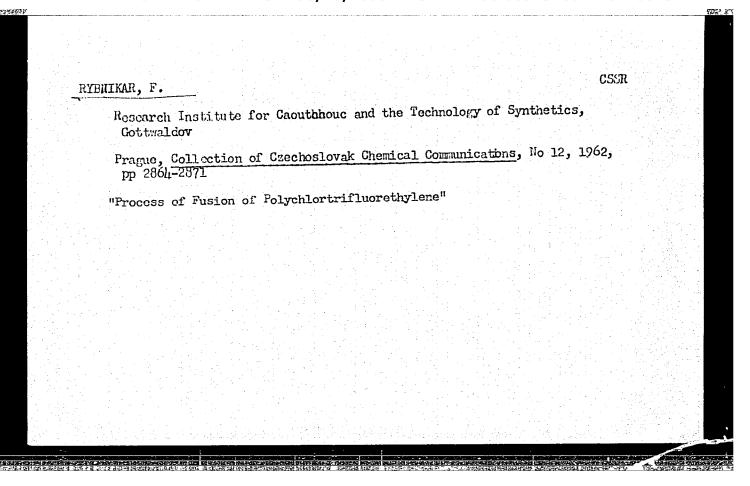
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Card 2/62



RYBNIKAR					
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	1. Forschung	gsinstitut fur	Gummi- und	Kunststofftechno	Logie, Gottwaldov.

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RYBNIKAR, F.

CZECHOSLOVAKIA

RYBNIKAR, F.

 ${\rm CSSR}$

Research Institute for Canutchouc and Technology of Synthetics,

Prague, Collection of Czechoslovak Chemical Communications, No 2, 1963, pp 320-330

"Michting Temperature of Polypropylenes"

RYBNIKAR, F.

CZECHOSLOVAKIA

No academic degree indicated

Research Institute for Rubber and Synthetics Technology (Forschungsinstitut fur Gummi- und Kunststofftechnologie), Gottvaldov

Prague, Collection of Czechoslovak Chemical Communications, vol 27, No 10, Oct 62, pp 2307-2325.

"Kinetics of Crystalization of Polychlortrifluorethylene"

5,3600

G/004/62/009/009/002/004 D029/D109

AUTHOR:

Rybnikar, F.

TITLE:

Influence of melting conditions on the crystallization of

polychlorotrifluoro ethylene

PERIODICAL:

Plaste und Kautschuk, vol 9, no. 9, 1962, 422-424

TEXT: The author discusses the results of experiments which will be published by him in another paper Collect. czechoslov. chem. commun., being printed. The appearing minimum value of the dependence of the 1/r values on the t' values are thus explained: a short melting time leaves a big quantity of crystallization nuclei in the batch. Their number decreases with increasing melting time. In addition a decomposition phenomenon occurs which results in an increased total crystallization velocity. It could not which results in an increased total crystallization velocity. It could not be determined so far whether this increased velocity is due to a simple lowering of the molecular weight or to the fact that compounds or structural states are created which serve as crystallization nuclei or activators of the crystal formation. The dependence minimum shifts in direction of the longer melting time with increasing molecular weight. The crystalli-

Card 1/3

Influence of melting conditions on ...

G/004/62/009/009/002/004 D029/D109

zation mechanism is determined by the n-values of Avram's equation, which for specimen 1 were around 3, proving a crystal formation of preferred nuclei. For specimen 2 the n-values were between 3 and 4. In this case also an athermic formation occurs. The crystallization of specimen 3 is greatly changed. Up to a melting time of 45 min. the n-values were around 3. In the initial phase of the isothermic crystallization they were around In a later phase the mechanism is characterized by values a little under 3. The observed non-isokinetic crystallization is thus explained: the number of preferred crystallization nuclei decreases continually with the melting time. After some time the majority of the preferred nuclei does not reach the critical size necessary for the given crystallization temperature. A certain time is necessary for the nuclei to reach the critical size. The minimum melting temperature of the total crystallization velocity is around 250°C. There are qualitative differences in the structure of molten polychlorotrifluoro ethylene which depend on the temperature of the melting process. Observed changes in the crystallization mechanism are similar to those occurring in the analogous cases of melting times. There are 5 figures and 3 tables.

Card 2/3

RYBNIKAR, F.

Effect of temperature on crystallization rate of poly-6-caproamides. Coll Cz Chem 26 no.4:937-944 Ap '61.

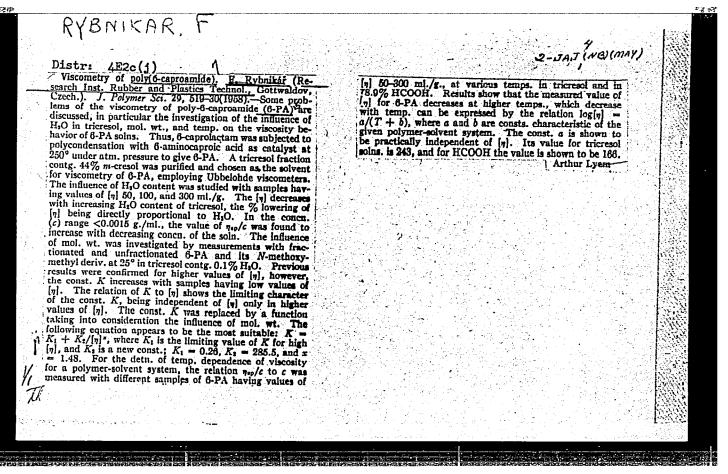
1. Forschungsinstitut fur Gummi- und Kunststofftechnologie, Gottwaldov.

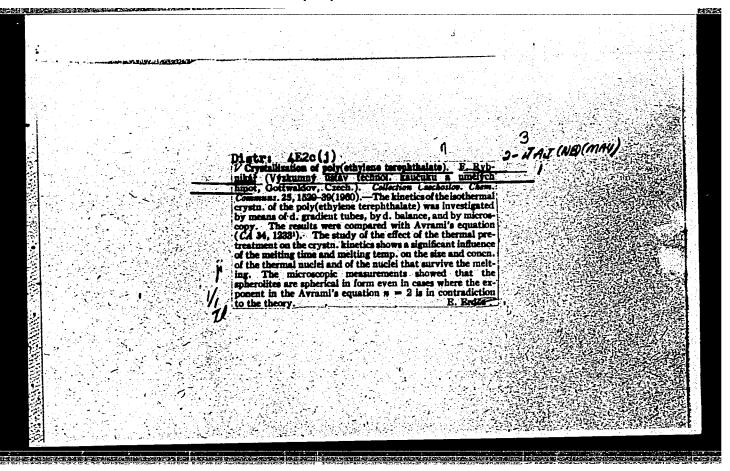
(Caproamide)

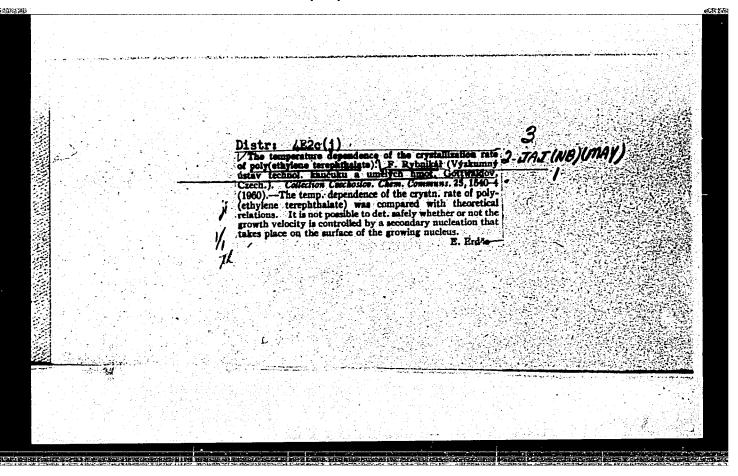
The dependability of crystallization rate of polyethylene terephthalate on temperature. Coll Cz Chem 25 no.6:1540-1544 Je '60. (EEAI 10:9) 1. Forschungsinstitut fur Gummi- and Kunststoff-technologie, Gottwaldov. (Ethylene terephthalate) (Polymers and polymerization)

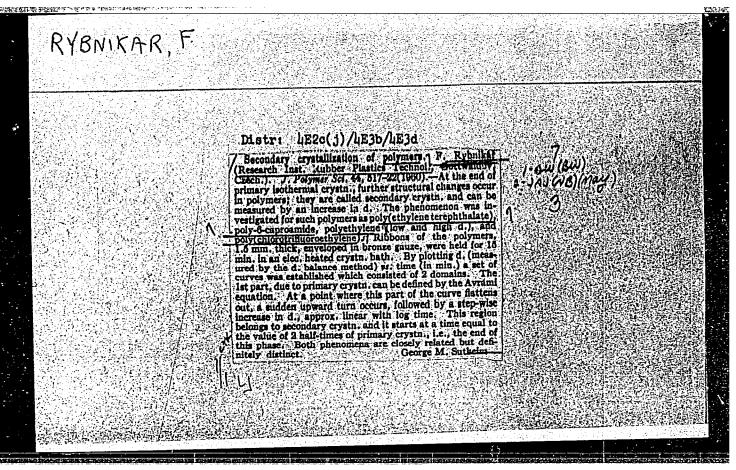
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機能描

Fusion temperatures of poly-6-caproamide and polyethylene terephthalate. In German. Coll.Cz.Chem. 24 no.9:2861-2869 S 159. (REAI 9:5)										
1. Forschungsinstitut fur Gummi- und Kunstofftechnologie, Gott-										
wald. (Caproamide) (Ethylene) (Polymers and polymerization)										

RYBNIKAR CZECHOSLOVAKIA/Atomic and Molecular Physics - Polymers and Their Solutions. Ref Zhur Fizika, No 1, 1960, 999 Abs Jour : Rybnikar, F. Author : Measurement of Heat of Transition by a Penetrometric Inst Title : Collect. Czechosl. Chem. Commus, 1959, 24, No 4, Oris Pub 1200-1205 : Translated from Chem. listy 1958, 52, 896. See Referat Zhur Fizika, 1959, No 2, 3159. Abstract Card 1/1

RYBNIKAR, F.
"Crystallization of polymers."

p. 212 (Chemie, Vol. 10, no. 3, Mar. 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9, September 1958

Ι

CZECHOSLOVIKII./High Polymer Chemistry.

.lbs Jour: Ref Zhur-Khim., No 3, 1959, 29986.

Author : Rybnikar, F.

Inst Title

: Penetrometric Determination of the Transition

Temperature of relymers.

Cr.; Tub: Chem Listy, 52, No 5, 696-900 (1950) (in Czech)

Abstract: The author has investigated the dependence of the

nelting point of crystalline and anorthous polyners on the load in penetrometric tests. From the values obtained for poly-6-copromide, polyethylene, polyethylene terephthalate, polyvinyl chloride, and polyvinyl butyraldehyde, the author has derived an equation correlating the value of the load with

Card : 1/2

RUBNIKAR.

CZECHOSLOVAKIA/Chemistry of High Molecular Substances.

Abs Jour

: Ref Zhur - Khimiya, No 14, 1958, 49222

Author

Frantisek Rybnikar, Otmar Zajicek

Inst Title

Laboratory Preparation of Poly-6-Caprolactam with High

Molecular Weight.

Orig Pub

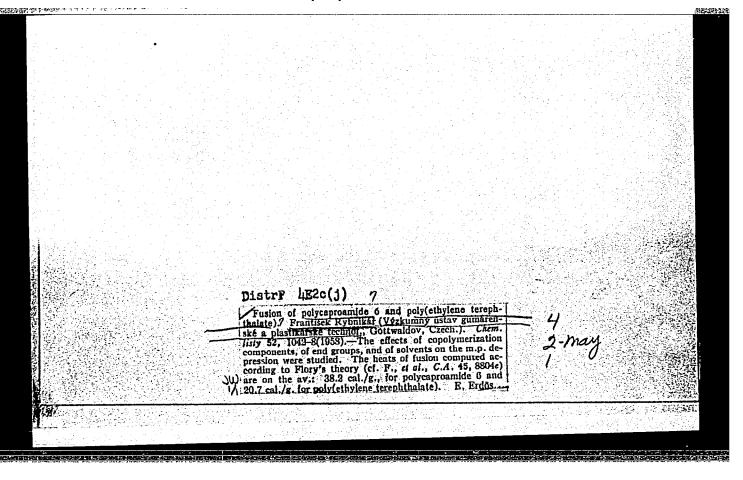
: Chem. prumysl, 1957, 7, No 11, 619-623

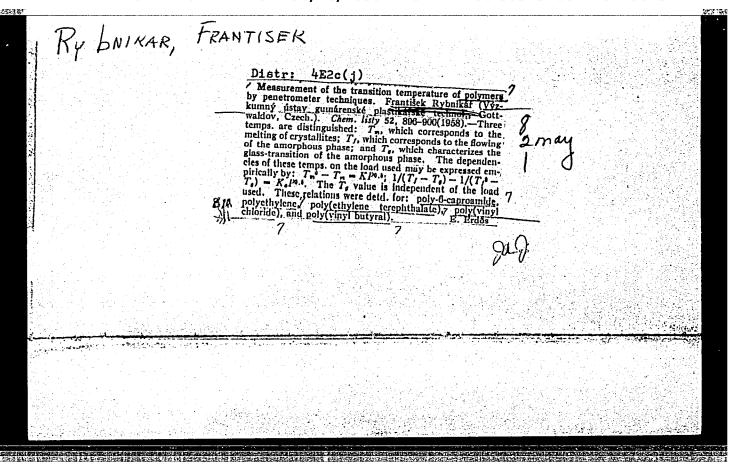
Abstract

: A simple preparation method of high molecular poly-6--caprolactam (I) of 6-caprolactam (II) and of commercial poly-6-caproamide (III) by the method of thermal polycondensation in the presence of acid catalysts was developed. It was found that the polycondensation of II gave the best results, if it had been carried out in the duration of 2 hours under normal pressure and continued 4 hours more under the pressure of 1 to 2 mm of merc. column, and if orthophosphoric acid and 6-aminocaproic acid in the amounts of 0.01% and 10 to 15% of the

Card 1/2

		Density changes in secondary crystallization of polypropylene. Chem prum 12 no.11:634-636 N '62.													
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Reduction of the kinetic energy of water beneath hydraulic constructions by means of surface discharge. p.97. (Vodni Hospodarstvi. Praha. No. 14, Apr. 1957.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

RYBNIKAR, J.

Prokes, V.; Halek, V. Electric analogy in the hydrodynamics of ground water flowing under the foundations of buildings. p. 342. VODNI HOSPODARSTVI, Prague, Vol. 4, no.11, Nov. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6, June 1956, Uncl.

AUTHORS:

Rybnikov, A.A. and Kirillov, I.F.

sov-25-58-9-34/62

TITLE

Branding Whales (Metki na kitakh)

PERIODICAL: Nauka i zhizn:, 1958, Nr 9, p 66 (USSR)

ABSTRACT:

The branding of whales was introduced in 1930. Its aim was to trace the origin of killed animals. Special rifles were used to shoot "marks" made of stainless steel into the backs of the whales. The site where this "branding" was done was marked on the map and the information transmitted to the Vsesoyuznyy nauchno-issledovatel'skiy institut rytnogo khozyaystva i okeanografii (The All-Union Scientific Research Institute of the Fishing Industry and Oceanography) which transmitted this information to the international organization which regulates the whaling industry.

ASSOCIATION: Nauchnaya gruppa kitoboynoy flotillii "Slava" (The Scientific Group of the Whale Flotila "Slava")

1. Whales--Migration

Card 1/1

Rybnikov, K.A.

44-1-38

TRANSLATION FROM: Referativnyy zhurnal, Matematika, 1957, Nr 1, p 4 (USSR)

AUTHOR:

Rybnikov, K.A.

TITLE:

Karl Friedrich Gauss; On the Centennial of his Death (Karl Fridrikh Gauss; k stoletiyu so dnya smerti)

PERIODICAL:

V sb.: Vopr. istorii yestestvozn. i tekhn., Nr 1, Moscow, AN SSSR, 1956, pp 44-53

ABSTRACT:

Bibliographic entry

Card 1/1

RYBNIKOV, A.A.

USSR/Physics of the Hydrosphere - General Problems, N-1

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36227

Author: Lagutin, B. L., Rybnikov, A. A.

Institution: None

Title: Preparation of Glasses for the Thermobathigraph

Original

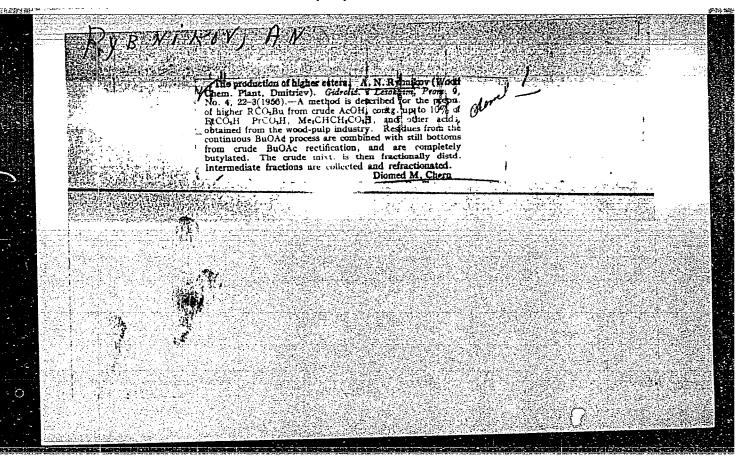
Periodical: Meteorol. i gidrologiya, 1956, No 1, 52-53

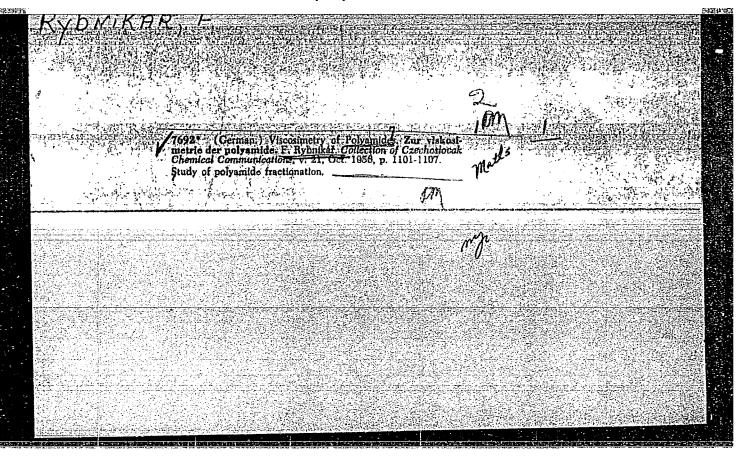
Abstract: Several methods were tested for coating glasses for the thermo-

bathigraph. It was established that the simplest and most reliable method is to smoke the glass, using the procedure de-

scribed in the article.

Card 1/1





CZECHOSLOVAKIA/High Polymer Chemistry.

.bs Jour: Ref Zhur-Khim, No 3, 1959, 29906.

Author : Rybnikar, F.

Title : Penetrometric Determination of the Transition

Temperature of relyners.

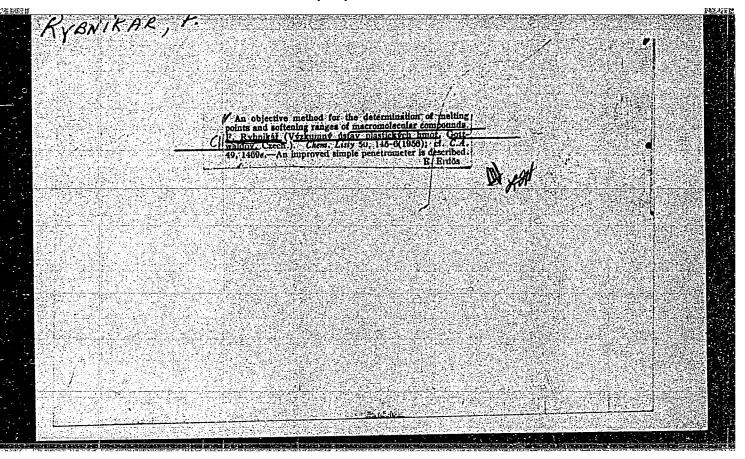
Cric Tub: Chem Listy, 52, No 5, 896-900 (1958) (in Czech)

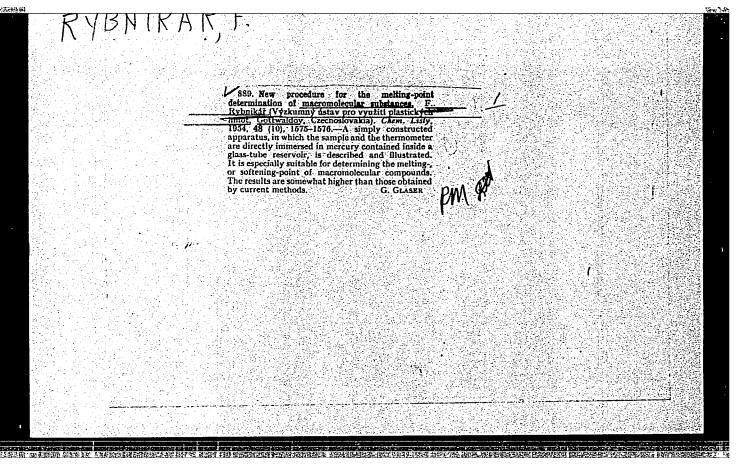
Abstract: The author has investigated the dependence of the melting point of crystalline and anorphous polymers on the load in penetrometric tests. From the values obtained for poly-6-copromide, polyethylene, polyethylene terephthelete, polyvinyl chloride, and polyvinyl butyreldehyde, the author has derived an

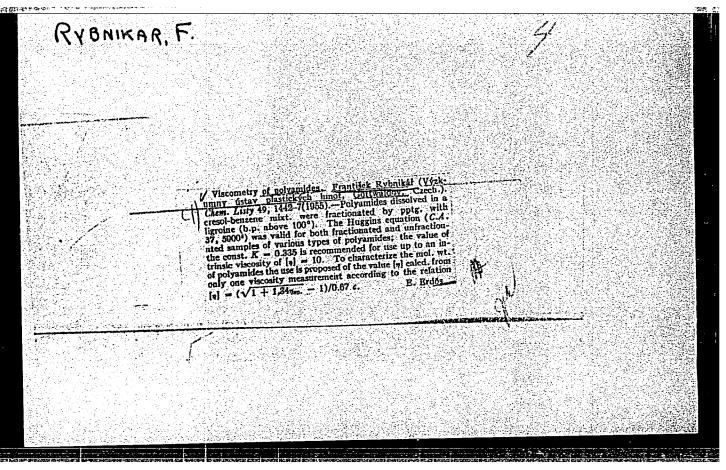
equation correlating the value of the load with

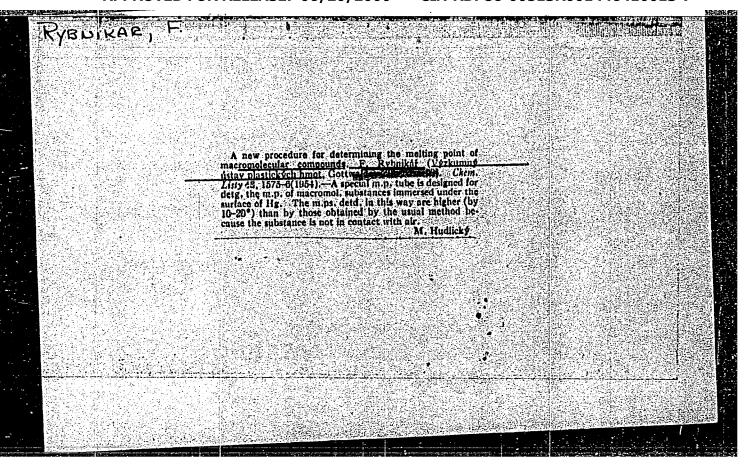
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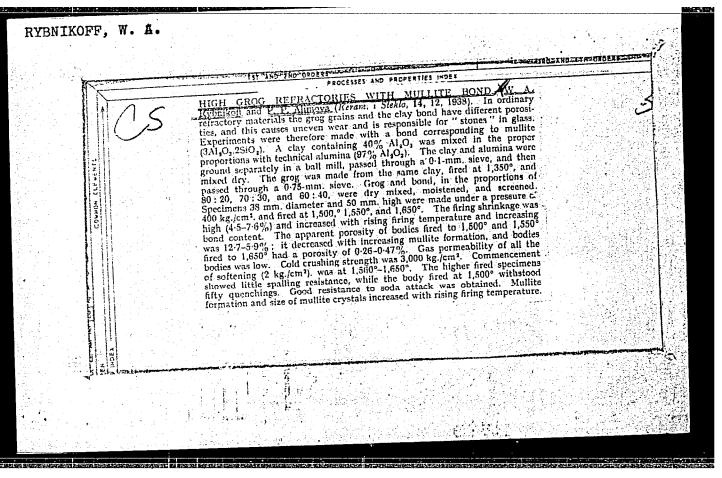
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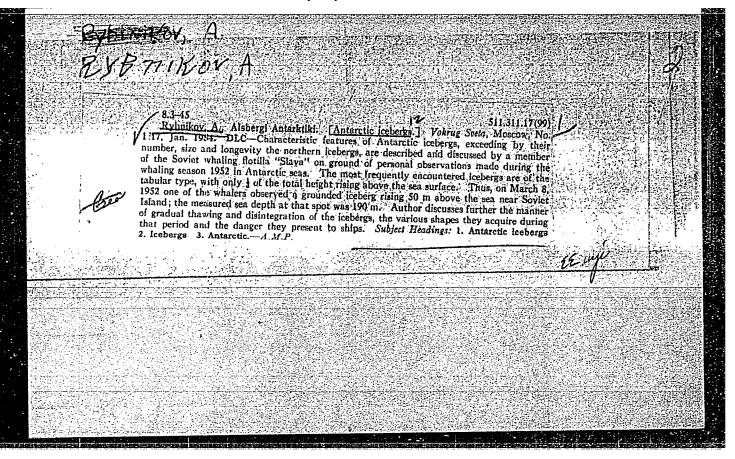
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HIGH GEOG PEFFACTOPIES WITH MULLITE HOND. -- N. A. Pybnikoff and VF. P. Alimova (Keram. i Staklo, 14, 12, 1938). In ordinary refractory nate lals the grog grains and the clay bond have different poresities, and this causes uneven werr and is responsible for "stones," in glass. Experiments were therefore made with a bond corresponding to mulite (3Al20g2SiC2). A clay containing 4C% Al20g was sixed in the proper proportions with technical alumina (975 Al203). The clay and aluming were ground separately in a tall mill, passed through a 0.1-mm sieve, and then mixed dry. The grog was made from the same clay, fired at 1,350°, and passed through a 0.75-m. sleve. Grog and bond, in the proportions of 80:20, 70:30, and 60:40, were dry mixed, moistened, and screened. Specimens 38mm. diameter and 50 mm. high were under a pressure of 400 kg/cm², and fired at 1,500°, 1,550°, and 1,650°. The firing shrinkage was high (4.5-7.6%) and increased with rising firing temperature and increasing bond content. The apparent perosity of bodies fired to 1,500° and 1,550° and 1,550°. wes 12.7-5.9%; it decreased with increasing mullite formation, and bodies fired to 1,650° had a porosity of 0.26-0.47%. Gas permeability of all the bodies was low. Cold crushing strength was 3,000 kg./cm2. Commencement of softening (2kg./cm2) was et 1,5600-1,6500. The higher fired specimens showed little spalling resistance, while the lody fired at 1,500° withstood fifty quenchings. Good resistance to soda attack was obtained. Mullite formation and size of mullite crystals increased with rising firing teaperature.

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Preparation of glass for the bathythermograph. Meteor.1 gidrol.
no.1:52-53 Ja '56.
(Bathythermograph)

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CIA-RDP86-00513R001446410013-7 "APPROVED FOR RELEASE: 06/20/2000

AUTHORS:

Kirillov, I. F., Rybnikov, A. A.

sov/50-58-8-5/18

TITLE:

entral processing the transfer of the second 10 Years Scientific Work of the State Oceanographical Institute on the Whale-Fishing Fleet "Slava" in the Antarctic

(Desyat' let nauchnoy raboty Gosudarstvennogo

okeanograficheskogo instituta na kitoboynoy flotilii "Slava"

v Antarktide)

PERIODICAL:

Meteorologiya i gidrologiya, 1958, Nr 8, pp. 28-29 (USSR)

ABSTRACT:

The fleet mentioned in the title set sail for the first time in 1946. The complicated weather conditions of the whalefishery regions of the Antarctic beside a great quantity of icebergs entail dangers. The success of whale-fishery depends on many conditions. Therefore it was necessary to investigate systematically the hydrometeorological conditions of the region. For this purpose a group of scientists began to work on board of the "Slava" already during the second voyage. The Gosudarstvennyy okeanograficheskiy institut (State Oceanographical Institute) took part in it to a considerable extent - it sent its assistants to the group and still takes part in the investigation of the Antarctic Seas. These assistants were the following: the two authors as well as Yu. V. Makerov, V. S.

Card 1/3

SOV/50-58-8-5/18 Institute on the

10 Years Scientific Work of the State Oceanographical Institute on the Whale-Fishing Fleet "Slava" in the Antarctic

Nazarov, and G. M. Tauber. During the first years the observations were made on the flagship "Slava". Since 1948 the ship "Slava-15" has been commanded to do scientific work and to go whaling. It had, however, to do other work as well, and this rendered the hydrological investigations rather difficult. Inspite of this rich material concerning the hydrology and meteorology of the Atlantic and the whale-fishery regions of the Antarctic was collected. Results were obtained on the distribution of sea-ice and icebergs, on the temperature, transparency, and color of the water. Finally important collections of zoo-plankton were made and whales were marked. The commanders of the fleet were regularly supplied with hydrometeorological characteristics of the whale-fishery regions. Ice maps were designed. The first monograph in two parts (Refs 1, 2), and the material with which the mentioned institute was regularly supplied were printed. New whale-fishery regions are sought by means of modern methods. This implies the distribution of the zoo-plankton in connection with the transparency of the water, content of phosphates, oxygen, and salt. The infrasonic waves which drive away whales are investigated. There are

Card 2/3

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10 Years Scientific Work of the State Oceanographical Institute on the Whale-Fishing Fleet "Slava" in the Antarctic.

> which are Soviet. 2 references,

Card 3/3

RYBNIKOV, A.A.; KIRILLOV, I.F.

Marked whales, Nauka i zhizn' 25 no.9:66 S '58. (MIRA 11:10)

1. Sotrudniki nauchnoy gruppy kitoboynoy flotilii "Slava."

(Whales)

PHASE I BOOK EXPLOITATION SOV/4737

- Ivanov, A.P., I.F. Kirillov, A.A. Rybnikov, and K.M. Sirotov
- Gidrometeorologicheskiye nablyudeniya na kitoboynom sudne "Slava-15" Antarkticheskoy kitoboynoy flotilii v 1955-58 gg. i glubokovodnyye gidrologicheskiye nablyudeniya v 1950-51 i 1953-58 gg. (Hydrometeorological Observations Made on Board the Whaler "Slava-15" of the Antarctic Whaling Fleet, 1955-58, and Deep-Sea Hydrological Observations, 1950-51 and 1953-58) Moscow, Gidrometeoizdat (Otd-niye), 1960. 319 p. (Series: Moscow. Gosudarstvennyy okeanograficheskiy institut. Trudy. vyp. 58) 650 copies printed.
- Sponsoring Agencies: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR; Gosudarstvennyy okeanograficheskiy institut.
- Ed. (Title page): V.S. Nazarov; Ed. (Inside book): N.I. Sorokina; Tech. Ed.: I.M. Zarkh.
- PURPOSE: The book is intended for members of the whaling industry and for navigetors. It will also be useful to meteorologists and hydrologists.
- COVERAGE: This issue of the Transactions of the Moscow State Oceanographic Institute presents the results of hydrometeorological and glaciological observations Cart 1/5

Hydrometeorological Observations (Cont.)

SOV/4737

conducted in Antarctic waters by the scientific exploration vessel "Slava-15" in 1955-58. During the first two seasons observations were conducted in the Atlantic section of the Antarctic waters. Observations made during the last veyage were extended over Antarctic waters from long. 42° W. to long. 162° E., i.e., over the southern part of the Atlantic and Indian oceans. This issue of the Transactions contains some general conclusions of value in the field of hydrology, meteorology and wind-generated sea-swell studies. Tables presenting the results of deep-sea observations made by the "Slava-15" from 1950 through 1958 are included. The scientific hydrometeorological group on the vessel consisted of the following: A.F. Ivanov, I.F. Kirillov, V.L. Lebedev, and A.A. Rybnikov. Meteorological and hydrological observational data from the expedition were processed at the State Oceanographic Institute by the same scientists. Chapter IV was written by K.M. Sirotov. There are 13 references: 11 Soviet, 1 German, and 1 English.

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Foreword

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KIRILLOV, I. F., nauchnyy sotrudnik; RYBNIKOV, A.A., nauchnyy sotrudnik; NAZAROV, V.S., red.; TARKHUNOVA, V.I., red.; ZEMTSOVA, T.Ye., tekhn.red.

[Hydrometeorological observations on research and scouting ships of the "Slava" Antartic Whaling Fleet in 1958-1959] Gidrometeorologicheskie nabliudeniia na nauchno-poiskovykh sudakh AKF "Slava" v 1958-1959 g. Moskva, Gidrometeor. izd-vo (otdelenie), 1961. 77 p. (Moscow. Gosudarstvennyi okeanograficheskii institut. Trudy, no.60) (MIRA 14:7)

1. Gosudarstvennyy okeanograficheskiy institut.
(Antarctic regions--Meteorology--Observations)
(Antarctic regions--Oceanographic research)

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Temperature of Antarctic surface waters in the whaling regions of Antarctica. Okeanologiia 1 no.5:825-834 '61. (MIRA 15:3)							
1. Gosudarstvennyy okeanograficheskiy institut. (Antarctic regionsOcean temperature) (Antarctic regionsWhales)							

and their ef	ffect on the di	ion; in whaling groun stribution of whales.	ds of A Trudy	GOIN (MIRA 16:7)	
no.73:3-65	(Antarctic	regions—Hydrometeor (Whaling)	ology)		
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KIRILLOV, I.F.; RYBNIKOV, A.A.

The roaring forties. Priroda 52 no.4:42-47 '63. (MIRA 16:4)

1. Gosudarstvennyy okeanograficheskiy institut, Moskva.
(Antarctic regions)

RYBNIKOV, A. G.

36977. BRENDORF, G. S. i RYBNIKOV, A. C. Sluchay Gemorragicheskogo Entsefalita, Lechennyy Endolyumbal'nym Vvedeniyem Penitsillina. Uchen. Zapizki (L'vovsk. Nauch.-issled. Kozhno-venerol. In-t), t. II, 1949, c. 107-11

SO: Letopis' Zhurnal'nykh Statey, Vol 50, Moskva, 1949

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AUTHOR: Rybnikov, A. K.

minite. The Immorai

The Immersion of a 3-dimensional Space of Affine Connection

With Torsion in a 7-dimensional Affine Space

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya matematiki,

mekhaniki, astronomii, fiziki, khimii, 1959, No. 5,

pp. 205-218

TEXT: Theorem: Every three-dimensional space of affine connection with torsion whose tensor of curvature does not identically vanish can be embedded into a seven-dimensional affine space. The arbitrariness of the immersion is determined by four arbitrary functions of three arguments.

The author thanks G. F. Laptev for assistance. There are 3 references: 2 Soviet and 1 French.

SUBMITTED: January 20, 1959

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AUTHOR: Rybnikov, A.K.

TITLE: On the Imbedding of an Affinely Connected Space With Torsion in an Affine Space

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya I, matematika, mekhanika, 1960, No.1, pp.3-15

TEXT: The author improves the result of Galvani (Ref.2) and proves the Theorem: Every n-dimensional space of affine connection with torsion can be imbedded in an N-dimensional affine space if for an odd n it holds

 $N \geqslant \frac{n^2 + 3n - 2}{2}$ and for an even n it holds $N \geqslant \frac{n^2 + 4n - 4}{2}$. Here the arbitrariness wherewith the imbedding is carried out is determined by $(N - \frac{n^2 + 3n - 2}{2})(2n + 1) + 2n - 2n - 2n$

 $\frac{3n^2-n^2-2}{2}$ arbitrary functions of n arguments for odd n and by

 $(N-\frac{n^2+4n-4}{2})(2n+1)+\frac{5n^2-4n-4}{2}$ functions for even n.

The author thanks Professor G.F. Laptev for the leading of the work. There are 2 references; 1 Soviet and 1 French.

ASSOCIATION: Kafedra differentsial noy geometrii (Department of Differential Geometry)

SUBMITTED: April 8, 1959

card 1/1

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. Fredstavleno akademikom P.S.Aleksandrovym. (Spaces, Generalized)	Symmetric spaces of affine connectivity of the first class. Dokl. AN SSSR 140 no.1:59-61 S-0 '61. (MIRA 14:9)	
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